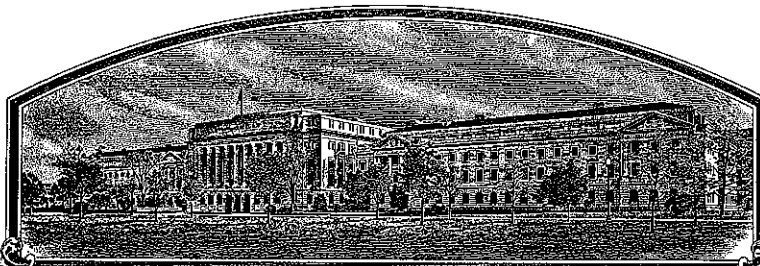


No.

200200236



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

*NY International Seeds and Rutgers,
The State University of New Jersey*

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

FESCUE, CHEWINGS

'Longfellow II'

*In Testimony Whereof, I have hereunto set my hand
and caused the seal of the Plant Variety
Protection Office to be affixed at the City of
Washington, D.C. this twelfth day of December,
in the year two thousand and five.*

Attest:

Belm Z...

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Mill Johnson

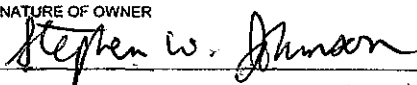
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER DLF Cebeco International Seeds, Inc. and Rutgers, The State University of New Jersey (BT: 8/18/2005)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME ISI-FRC 2		3. VARIETY NAME Longfellow II	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) PO Box 229 Halsey, OR 97348 USA		5. TELEPHONE (include area code) 541-369-2251		FOR OFFICIAL USE ONLY PVPO NUMBER 200200236	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Oregon		9. DATE OF INCORPORATION 1972	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) DLF Stephen W. Johnson and Rutgers, The State University of New Jersey (BT: 8/18/2005) PO Box 229 Halsey, OR 97348 7/28/418/05				FILING AND EXAMINATION FEES: \$ 2705- DATE 8/23/2002 CERTIFICATION FEE: \$ 682.00 DATE 10/3/2005	
11. TELEPHONE (Include area code) 541-369-2251		12. FAX (Include area code) 541-369-2251		13. E-MAIL STEVEJ@intlseed.com	
14. CROP KIND (Common Name) Chewings Fescue		15. GENUS AND SPECIES NAME OF CROP Festuca rubra commutata			
16. FAMILY NAME (Botanical) Graminae		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 22)			
20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? IF YES, SPECIFY THE <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED NUMBER 1,2,3, etc. (If additional explanation is necessary, please use the space indicated on the reverse.)			
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 		SIGNATURE OF OWNER			
NAME (Please print or type) Stephen W. Johnson		NAME (Please print or type)			
CAPACITY OR TITLE Director of Research		DATE 7-22-02		CAPACITY OR TITLE	
				DATE	

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See *Regulations and Rules of Practice, Section 97.103*).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

USA October 10, 2001

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

20. NOV 23 10:57

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the Regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705.

Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (07-01) designed by the Plant Variety Protection Office with WordPerfect 9.0. Replaces STD-470 (04-01) which is obsolete.

Exhibit A

ORIGIN AND BREEDING HISTORY OF LONGFELLOW II (CIS-FRC 2)

CHEWINGS FESCUE

Longfellow II (CIS-FRC 2) Chewings fescue (*Festuca rubra* L. subsp. *commutata* Gaud.) is an advanced generation synthetic cultivar selected from the maternal progenies of 23 clones. Longfellow II was developed for improved seed yield and turf performance, dark bright green color, and freedom from disease. Much of the parental germplasm used to breed Longfellow II traces to plants related to the variety Longfellow.

The germplasm used in the development of Longfellow II Chewings fescue was developed using a population improvement program initiated at the New Jersey Agricultural Experiment Station in 1962. The most promising plants used in this program were selected from old lawn-type turfs on the grounds of Fort McHenry, Baltimore, MD, Johnson Park in Piscataway, NJ, the College Avenue Campus of Rutgers University, New Brunswick, NJ, the Bridgehampton Golf Course, Bridgehampton, NY, Longfellow Park in Cambridge, MA, Westview Cemetery in Atlanta, GA, old parks in Philadelphia, PA, Tennant Cemetery, in Tennant, NJ, and a lawn located at 4 Delaware Drive in East Brunswick, NJ.

An intensive germplasm collection effort was initiated by Rutgers University in 1962 to select and utilize the best plants surviving in old turfs. Many weeks were spent examining old turfs for attractive, well-adapted plants of Chewings fescue and other useful turfgrasses. Promising plants selected from old turfs were subjected to clonal and progeny evaluation in closely mowed turf trials and spaced-plant nurseries. Of over a thousand Chewings fescue plants collected, only a few dozen were saved for further breeding work. These elite selections were crossed with other promising selections from the germplasm collection program or from current cycles of the breeding program. Progenies from these crosses were included in population improvement programs, which included screening in a greenhouse for improved disease resistance, in spaced-plant nurseries for increased seed yield and uniformity, and in closely mowed turf trials for improved turf performance and increased stress tolerance. Extensive screening for improved disease resistance was conducted under greenhouse conditions as well as in spaced-plant nurseries and closely mowed turf trials at North Brunswick, and Adelphia, NJ.

Single-plot progenies of 535 clones selected from the Rutgers turfgrass breeding program were seeded in individual turf plots in Adelphia, NJ in the late summer of 1994. Following two years of evaluation for disease resistance, heat and drought stress tolerance and improved turf quality, 23 single-plot progenies were selected from this trial. Selection was based on turf performance prior to selection and appearance of the plots at the time of selection. After intense interplant competition eliminated most of the weak plants during those two years of evaluation, promising plants were selected from those 23

single-plot progeny turf plots and sent to ^{DLF} ~~Cebeco~~ International Seeds Inc. in the late summer of 1996 where they were planted in isolated nursery. This nursery consisted of the plants listed below. These 445 plants were planted in the nursery in a completely randomized manner.

<u>A94</u> <u>Family</u>	<u>No. of</u> <u>Plants</u>	<u>A94</u> <u>Family</u>	<u>No. of</u> <u>Plants</u>
105	17	343	23
107	16	353	14
136	19	398	17
154	21	409	19
156	20	428	18
161	28	433	20
188	25	434	16
199	20	436	22
263	14	439	18
284	18	441	24
302	20	442	22
325	14		

Prior to anthesis in 1997 approximately 20% of the plants in the nursery that had few reproductive tillers, and/or light green foliage were removed from the nursery. The plants that remained in the nursery were allowed to interpollinate. Seed harvested from these plants was bulk harvested in 1997 and 1998. This seed constitutes the stock seed for the variety Longfellow II (experimental CIS-FRC 2). A portion of this seed is maintained by ^{DLF} ~~Cebeco~~ International Seeds and may be used to plant new breeder seed fields when necessary. (8/18/2005)

The variety Longfellow II has appeared uniform and stable during the multiplication from breeder to foundation to certified generation. Longfellow II has a small percentage (*variants*) (<0.25%) of plants that are somewhat taller and coarser than the rest of the population. The percentage of these plants appears to be stable when seed is multiplied from breeder through certified generations.

728
4/8/05

Exhibit B**Statement of Distinctness**

Longfellow II chewings fescue (*Festuca rubra comutata*) is late maturity variety developed for use in turf.

Longfellow II is most similar to the variety Jamestown. Differences between Longfellow II and Jamestown include, but are not necessarily limited to the following:

1. Longfellow II has a lower 1000 seed weight when grown in western Oregon. (0.99 g vs. 1.21 g).

RECEIVED

RECEIVED

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Fine Leaved Fescues)

OBJECTIVE DESCRIPTION OF VARIETY
FINE LEAVED FESCUES
(*Festuca* spp.)

DLF
7/2/05
4/8/05

NAME OF APPLICANT(S) Gibson International Seeds and Rutgers, The State University of New Jersey (US: 8/18/2005)	TEMPORARY DESIGNATION CIS-FRC 2/ISI-FRC 2	VARIETY NAME Longfellow II
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code) PO Box 229 Halsey, OR 97348	FOR OFFICIAL USE ONLY PVPO NUMBER 200200236	

Place the appropriate number that describes the varietal character of this variety in the boxes below. Use leading zeroes when necessary (e.g., or). Characteristics described including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate system used: _____
1-5; 5=very dark green Describe location of test area, conditions and number of plants used: _____
3 replications with 20 plants per variety per replication (60 plants per variety)

1. SPECIES: (With comparison varieties for use below - use varieties within species of application variety)

- | | | | | |
|--------------------------------|--|---------------|----------------|---------------------|
| <input type="text" value="1"/> | 1 = <i>F. rubra</i> ssp. <i>commutata</i> (Chewings) | 11 = Cascade | 12 = Highlight | 13 = Jamestown |
| | 2 = <i>F. rubra</i> ssp. <i>litoralis</i> (Creeping Red) | 14 = Banner | 15 = Barfalla | 23 = Merlin |
| | 3 = <i>F. rubra</i> ssp. <i>rubra</i> (Spreading Red) | 21 = Dawson | 22 = Starlight | 33 = Fortress |
| | 4 = <i>F. ovina</i> (Sheep) | 24 = Pennlawn | 32 = Ruby | |
| | 5 = <i>F. longifolia</i> (Hard) | 31 = Boreal | 34 = Ensylva | |
| | 6 = <i>F. tenuifolia</i> (Fine-Leaved Sheep) | 41 = Covar | 51 = Durar | 52 = Biljart (C-26) |
| | 7 = Other (Specify) <i>F.</i> _____ | 61 = Panda | 62 = Barok | 53 = Scaldis |

2. CYTOLOGY:

- | | | | | | | |
|---|-------------------|--------------------------------|--------|---------------|----------------|---------------|
| <input type="text" value="4"/> <input type="text" value="2"/> | Chromosome Number | <input type="text" value="3"/> | Ploidy | 1 = diploid | 2 = tetraploid | 3 = hexaploid |
| | | | | 4 = octoploid | | |

3. ADAPTATION: (0 = Not Tested; 1 = Not Adapted; 2 = Adapted)

- | | | | | | | | | | |
|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|---------------|--------------------------------|--------------|----------------------|------------------------|
| <input type="text" value="2"/> | Northeast | <input type="text" value="2"/> | Southeast | <input type="text" value="2"/> | North Central | <input type="text" value="2"/> | Pacific N.W. | <input type="text"/> | Other (Specify): _____ |
|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|---------------|--------------------------------|--------------|----------------------|------------------------|

4. MATURITY: Date First Headed (panicle emergence) Location(s) of Trial(s) Harrisburg, Oregon

- | | | | | |
|--------------------------------|-----------------|---------------------------------|-----------------------------|-----------------------------------|
| <input type="text" value="5"/> | Maturity Class: | 1 = Very Early (Covar) | 2 = Early (Highlight) | 3 = Medium Early (Boreal, Dawson) |
| | | 4 = Medium Late (Cascade, Ruby) | 5 = Late (Jamestown, Agram) | 6 = Very Late |

Date Headed May 3

- | | | | |
|---|-------------------------------|---|--------------------|
| <input type="text" value="0"/> <input type="text" value="3"/> | Days earlier than <u>N/A</u> | <input type="text" value="1"/> <input type="text" value="3"/> | Comparison Variety |
| | Maturity same as | <input type="text" value="1"/> <input type="text" value="3"/> | |
| | Days later than <u>Shadow</u> | <input type="text" value="1"/> <input type="text" value="3"/> | |

5. PLANT HEIGHT: (At maturity; to top of panicle; Average of 10 tallest culms)

- | | | | |
|--|-----------------------------------|---|--------------------|
| <input type="text" value="7"/> <input type="text" value="7"/> <input type="text" value="6"/> | mm height | | Comparison Variety |
| <input type="text" value="0"/> <input type="text" value="7"/> <input type="text" value="7"/> | mm shorter than <u>Longfellow</u> | <input type="text" value="1"/> <input type="text" value="3"/> | |
| | Height same as <u>Koket</u> | <input type="text" value="1"/> <input type="text" value="3"/> | |
| <input type="text" value="0"/> <input type="text" value="3"/> | mm taller than <u>N/A</u> | <input type="text" value="1"/> <input type="text" value="3"/> | |

6. GROWTH HABIT: (Mature)

- | | | | |
|--------------------------------|------------------|----------------------------|-------------------------|
| <input type="text" value="2"/> | 1 = Erect (Ruby) | 2 = Semi-erect (Highlight) | 3 = Prostrate (Silvana) |
|--------------------------------|------------------|----------------------------|-------------------------|

7. RHIZOMES:

- | | | | | | |
|--|---------------------------------------|---|--------------------------------|---|---------------------|
| <input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="1"/> | mm Length | <input type="text" value="1"/> <input type="text" value="1"/> | mm Width | <input type="text" value="1"/> <input type="text" value="1"/> | mm Internode length |
| <input type="text" value="1"/> | 1 = Absent (Highlight) | 2 = Weakly Creeping (Dawson) | 3 = Strongly Creeping (Boreal) | | |
| | 4 = Very Strongly Creeping (Fortress) | | | | |

8. LEAF BLADE:

4

Color: 1 = Light Green (Starlight) 2 = Medium Light Green (Highlight) 3 = Medium Dark Green (Ruby, Agram)
 4 = Dark Green (Jamestown, Manoir) 5 = Bluegreen (Saphir) 6 = Graygreen (Scaldis)
 7 = Other (Specify)

1

Glaucosity (Sowing Year): 1 = Absent (Koket) 2 = Present (Vendome)

2

Anthocyanin: 1 = Absent 2 = Present 1 Hairs (Basal) 1 = Absent 2 = Present

1

Margins: 1 = Smooth 2 = Semi-rough 3 = Rough

2

Margin folding (closure): 1 = Rolled inward (closed-Highlight) 2 = Flat (open-Jamestown, Engina)

2

Width class:
 1 = Very Fine (Agram, Frida) 2 = Fine (Jamestown, Highlight, Banner, Dawson)
 3 = Medium Fine (Fortress, Ruby, Scaldis) 4 = Medium Coarse (Engina)

1 4 4

mm Length (flag leaf)

N/A

mm Shorter than . . . N/A . . .

Blade length same as Longfellow

Comparison Variety

5 3

mm Longer than . . . Koket . . .

1 7 6

mm Width (flag leaf)

N/A

mm Narrower than . . . N/A . . .

Blade width same as . . . 1 3

Comparison Variety

N/A

mm Wider than . . . N/A . . .

9. LEAF SHEATH:

2

Anthocyanin (seedling): 1 = Absent (Highlight) 2 = Present (Jamestown, Fortress, Marga)

1

Auricle Hairiness: 1 = Absent 2 = Present

2

Margins: 1 = Open (Highlight) 2 = Closed (Jamestown)

10. PANICLE (Mature plant):

2

Shape: 1 = Narrow-tapering 2 = Ovate 3 = Oblong 4 = Other (Specify)

2

Type: 1 = Open 2 = Intermediate 3 = Compact

1

Orientation: 1 = Erect 2 = Nodding

2

Branch Pubescence: 1 = Glabrous 2 = Pubescent (pubescence is rare)

1

Anther Color:

3

Glume Color (At 50% flowering): 1 = Yellowish Green 2 = Green 3 = Bluish Green 4 = Purplish
 5 = Reddish 6 = Other (Specify)

1 2 0

mm Length

3 3

mm Shorter than Longfellow . . .

Panicle length same as . . . 1 3

Comparison Variety

N/A

mm Longer than . . . N/A . . .

11. PALEA:

3

Hairs (On keels or margins): 1 = Absent (Banner) 2 = Short (Agram, Scaldis, Olds)
 3 = Long (Rainier, Fortress, Jamestown)

12. LEMMA (Mature):

<input type="text" value="3"/>	Hairs:	1 = Absent (Jamestown)	2 = Several	3 = Many (Highlight)
<input type="text" value="6"/> <input type="text" value="6"/>	mm Lemma Length			
<input type="text" value="0"/> <input type="text" value="7"/>	mm Shorter than Longfellow	<input type="text"/>	<input type="text"/>	} Comparison Variety
<input type="text"/>	Lemma length same as	<input type="text" value="1"/> <input type="text" value="3"/>		
<input type="text"/>	mm Longer than N/A	<input type="text"/>	<input type="text"/>	
<input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="8"/>	mm Lemma Width			} Comparison Variety
<input type="text"/>	mm Narrower than	<input type="text"/>	<input type="text"/>	
<input type="text"/>	Lemma width same as	<input type="text"/>	<input type="text"/>	
<input type="text"/>	mm Wider than	<input type="text"/>	<input type="text"/>	
<input type="text" value="2"/>	Awns:	1 = Absent	2 = Present	
<input type="text" value="1"/> <input type="text" value="7"/>	mm Awn Length			} Comparison Variety
<input type="text"/>	mm Shorter than N/A	<input type="text"/>	<input type="text"/>	
<input type="text"/>	Awn length same as Banner	<input type="text"/>	<input type="text"/>	
<input type="text"/>	mm Longer than N/A	<input type="text"/>	<input type="text"/>	

13. SEED (With lemma & palea):

<input type="text" value="2"/>	Size Class (g/1000 seed):	
	1 = < .9g (Biljart, Dawson)	2 = .9 - < 1.1g (Jamestown, Highlight)
	3 = 1.1 - 1.3g (Fortress, Novorubra)	4 = > 1.3g (Boreal, Golfrood)
<input type="text" value="0"/> <input type="text" value="9"/> <input type="text" value="9"/> <input type="text" value="0"/>	mg per 1000 seed	
<input type="text" value="2"/> <input type="text" value="2"/> <input type="text" value="0"/>	mg per 1000 seed less than	<input type="text" value="1"/> <input type="text" value="3"/>
<input type="text"/>	Seed Weight same as N/A	<input type="text"/>
<input type="text"/>	mg per 1000 more than N/A	<input type="text"/>

14. DISEASE, INSECT, AND NEMATODE REACTION (0 = Not Tested, 1 = Susceptible, 2 = Resistant):

<input type="text" value="0"/>	Melting-out <i>Drechslera poae</i> (<i>Helminthosporium vagans</i>)	<input type="text" value="0"/>	Stripe rust <i>P. striiformis</i>
<input type="text" value="0"/>	Leaf spot <i>D. siccans</i>	<input type="text" value="0"/>	Leaf rust <i>P. poae-nemorale</i>
<input type="text" value="0"/>	Net blotch <i>D. dictyoides</i>	<input type="text" value="0"/>	<i>P. crandallii</i>
<input type="text" value="2"/>	Leaf spot <i>Bipolaris sorokiniana</i>	<input type="text" value="0"/>	Pythium Blight <i>Pythium ultimum</i>
<input type="text" value="2"/>	Brown patch <i>Rhizoctonia solani</i>	<input type="text" value="2"/>	Red thread <i>Corticium fusciforme</i>
<input type="text" value="0"/>	Powdery mildew <i>Erysiphe graminis</i>	<input type="text" value="2"/>	Dollar spot <i>Sclerotinia homoeocarpa</i>
<input type="text" value="0"/>	Stripe smut <i>Ustilago striiformis</i>	<input type="text"/>	Insect _____
<input type="text" value="2"/>	F. Patch, Pink snow-mold <i>Fusarium nivale</i>	<input type="text"/>	Nematode _____
<input type="text" value="0"/>	Fusarium blight <i>F. tricinctum</i> , <i>F. roseum</i>	<input type="text"/>	Other _____
<input type="text" value="2"/>	Gray snow mold <i>Typhula loliae</i>	<input type="text"/>	Other _____
<input type="text" value="0"/>	Stem rust <i>Puccinia graminis</i>	<input type="text"/>	Other _____

15. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY. For the following characteristics indicate Degree of Resemblance by placing the column marked, D.R., one of the following numbers:

1 = Application variety is less than comparison variety.

2 = Same As

3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Rhizome Length			Growth Habit	Jamestown	2
Leaf Width	Jamestown	1	Leaf Color	Jamestown	3
Panicle Color			Panicle Shape	Jamestown	2
Winter Color			Cold Injury		
Shade Tolerance			Heat		
Drought			Disease*		

* Specify each disease evaluated.

16. ADDITIONAL DESCRIPTION: (Use additional sheets as required)

Describe all characteristics that cannot be adequately described in the form above in Exhibit D. Comparative varieties should be used as may be appropriate, such as for disease. Append all comparative trial and evaluation data, including measured characters, environmental, and disease tests.

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EXHIBIT D

Table 1.

Heading dates of chewings fescues grown
near Harrisburg, Oregon

Variety	Heading Date		
	2000	2001	Average
Longfellow	April 22	April 25	April 24
Koket	May 1	April 28	April 30
Shadow	April 29	April 30	April 30
Banner	April 29	May 2	May 1
Longfellow II	May 3	May 2	May 3
Jamestown	May 2	May 6	May 4

EXHIBIT D

Table 2. Morphological traits of Chewings fescue cultivars grown near Harrisburg, Oregon.

Variety	Plant Height (cm)			Panicle Length (cm)			1st Internode Length (cm)			2nd Internode Length (cm)			Flag Leaf Length (cm)		
	2000	2001	Average	2000	2001	Average	2000	2001	Average	2000	2001	Average	2000	2001	Average
Longfellow	82.74	87.87	85.31	16.08	14.40	15.24	38.43	46.30	42.36	16.56	16.32	16.44	9.78	12.77	11.28
Banner	77.66	86.47	82.07	13.04	13.73	13.39	36.25	44.05	40.15	17.51	15.30	16.41	7.60	11.66	9.63
Shadow	74.30	84.52	79.41	13.33	14.02	13.67	32.61	40.88	36.75	16.34	13.65	15.00	9.55	11.19	10.37
Jamestown	71.62	85.18	78.40	13.73	14.36	14.05	28.90	41.59	35.25	19.85	16.68	18.27	7.44	11.62	9.53
Longfellow II	71.68	83.60	77.64	11.68	12.30	11.99	31.49	41.55	36.52	17.89	15.52	16.71	15.84	12.85	14.35
Koket	76.79	77.71	77.25	14.63	12.68	13.66	36.32	45.05	40.69	17.23	11.45	14.34	7.79	10.22	9.01
LSD	6.73	10.21		1.65	1.81		8.15	8.31		3.50	3.31		5.51	2.32	

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EXHIBIT D

Table 3.
Additional Morphological traits of chewings fescue varieties grown near Harrisburg, Oregon

Variety	Flag Leaf Width (mm)			Tiller Leaf Length (cm)			Tiller Leaf Width (mm)			Veg. Leaf Length (cm)		
	2000	2001	Average	2000	2001	Average	2000	2001	Average	2000	2001	Average
Longfellow	2.17	2.11	2.14	9.22	11.15	10.19	2.25	1.86	2.05	33.00	29.67	31.34
Banner	2.40	1.64	2.02	8.39	11.18	9.78	2.17	1.59	1.88	24.93	24.42	24.68
Shadow	2.31	1.66	1.99	8.94	11.68	10.31	2.21	1.81	2.01	28.42	22.60	25.51
Jamestown	2.12	1.63	1.88	7.70	10.96	9.33	2.03	1.69	1.86	25.31	25.75	25.53
Longfellow II	1.95	1.56	1.76	8.15	10.69	9.42	1.67	1.57	1.62	24.60	23.35	23.97
Koket	1.94	1.87	1.90	8.11	9.20	8.65	2.13	1.45	1.79	23.23	18.23	20.73
LSD	0.69	0.51		2.04	2.01		0.64	0.53		5.65	5.86	

EXHIBIT D

Table 4. Seed characteristics of chewings fescue varieties grown near Harrisburg, Oregon

Variety	10 Seed Length (mm)		10 Seed Width (mm)		Awn Length (mm)		1000 seed wt (g)	
	2000	2001	Average	2000	2001	Average	2000	2001
Shadow	66.33	71.00	68.67	11.00	11.33	11.17	1.53	0.98
Koket	67.67	69.00	68.34	12.00	12.00	12.00	1.66	0.90
Longfellow	65.33	65.67	65.50	11.00	10.67	10.83	1.48	0.96
Banner	60.33	64.33	62.33	11.00	11.33	11.17	1.48	0.97
Jamestown	58.33	62.00	60.17	11.00	10.33	10.67	1.43	0.99
Longfellow II	57.67	59.33	58.50	11.33	10.33	10.83	1.24	0.74
LSD @ 0.05	5.82	5.59		NS	NS	NS	0.18	0.20

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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E

STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S)

2. TEMPORARY DESIGNATION
OR EXPERIMENTAL NUMBER

3. VARIETY NAME

Jans DLF
4/8/05 Gebeco International Seeds, Inc. State
University of New Jersey
(ST: 8/18/2005)

CIS-FRC 2

Longfellow II

4. ADDRESS (Street and No., or R.F.D. No., City, State, and Zip and Country)

5. TELEPHONE (Include area code)

6. FAX (Include area code)

PO Box 229/175 West 'H' Street
Halsey, OR 97348
USA

541-369-2251

541-369-2640 (ST: 8/18/2005)

7. PVPO NUMBER

200200236

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain

☒

YES

☐

9. Is the applicant (individual or company) a U.S. National or a U.S. based company? If no, give name of country

☒

YES

☐

NO

10. Is the applicant the original owner?

☒

YES

☐

NO

If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐

YES

☐

NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐

YES

☐

NO

If no, give name of country

11. Additional explanation on ownership (If needed, use the reverse for extra space):

DLF
Longfellow II was developed by Gebeco International Seeds, Inc. using germplasm
obtained from the New Jersey Agricultural Experiment Station.
(ST: 8/18/2005)

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 6 minutes per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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